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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/663,450	09/15/2003	Merja E. Penttila	GC590-2-C1	2737
Genencor Intern	7590 11/01/2007 national. Inc.		EXAMINER	
925 Page Mill I	Road		GUZO, DAVID	
Pola Alto, CA 94034-1013			^ ART UNIT	PAPER NUMBER
			1636	-
			MAIL DATE	DELIVERY MODE
			11/01/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	_			
	10/663,450	PENTTILA ET AL.				
Office Action Summary	Examiner	Art Unit	_			
	David Guzo	1636				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period way reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 15 Au	<u>ugust 2007</u> .					
2a)⊠ This action is FINAL . 2b)□ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>2,3,5-13,26-34,83-85,87 and 89-98</u> is/are pending in the application.						
4a) Of the above claim(s) <u>83-85 and 87</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) <u>2,3,5-13,26-34 and 89-98</u> is/are reject	ted.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers		·				
9)☐ The specification is objected to by the Examine	er.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119	•	•				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: □						
 Certified copies of the priority document 						
2. Certified copies of the priority documents have been received in Application No						
Copies of the certified copies of the prior		ed in this National Stage				
application from the International Bureau		- 4				
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D 5) Notice of Informal I	ate				
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	6) Other:	- atent Application				
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Detailed Action

Withdrawn Claims

Claims 83-85, 87 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 10/17/05.

35 USC 112, 1st Paragraph Rejections

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 2-3, 5-13, 26-34, 89-98 stand rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

This rejection (NEW MATTER) is maintained for reasons of record in the previous Office Action (mailed 4/20/07) and for reasons outlined below.

Applicants traverse this rejection by reiterating their previous remarks and asserting that direct support for the claim language (in claims 2, 89-90 and 95-97) is found on page 6 through page 7 of the specification. With regard to claims 26-27, applicants have amended the claims as suggested by the examiner. Applicants have

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canceled claim 36. With regard to claim 95, applicants removed the reference to "combinations" of the proteins.

Applicant's arguments filed 8/15/07 have been fully considered but they are not persuasive. Initially, it is noted that applicants' amendment of claims 2, 27 and 29 reciting a method of increasing the secretion of a heterologous protein in a **fungal cell** represents impermissible new matter. The application as filed (paragraph [0092] from the PG publication) discloses the following with regard to the cells in which secretion of heterologous proteins are increased:

The cell in which the proteins are secreted is any cell having an upregulated protein response. Preferably, the host to be transformed with the genes of the invention can be any eukaryotic cell suitable for foreign or endogenous protein production, e.g., any S. cerevisiae yeast strain, (e.g., DBY746, BMA64-1A, AH22, S150-2B, GYPY55-15bA, vtt-a-63015) any Trichoderma spp. such as T. longibrachiatum and the T. reesei strains derived from the natural isolate QM6a, such as RUTC-30, RL-P37, QM9416 and VIT-D-79125, any Kluyveromyces spp/. Sch. pombe, H. polymorpha, Pichia, Aspergillus, Neurospora, Yarrowia, Fusarium, Penicilium spp. or higher eukaryotic cells.

Limitation of the cells to **any fungal cell** is not supported by the application, as originally filed.

Likewise, the limitation of nucleic acids encoding a **fungal HAC1 UPR-modulating protein** comprising a DNA binding domain having at least 90% sequence identity to a DNA binding protein of:

- a) amino acid residues 84 147 of SEQ ID NO: 5;
- b) amino acid residues 53- 116 of SEQ ID NO: 6 or
- c) amino acid residues 45 -109 of SEQ ID No:19

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is not supported by the application as filed because said application does not recite the limitation of **any fungal HAC1 UPR-modulating protein** comprising a DNA binding domain having at least 90% sequence identity to the recited SEQ ID NOs.

With regard to applicants' assertion that direct support can be found on pages 6-7 for the specific amino acid residues recited in claim 2, said assertion is valid and that part of the written description rejection is withdrawn.

No Claims are allowed.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Guzo, Ph.D., whose telephone number is (571)

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272-0767. The examiner can normally be reached on Monday-Thursday from 8:00 AM

to 5:30 PM. The examiner can also be reached on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Joseph Woitach, can be reached on (571) 272-0739. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

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For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

David Guzo October 25, 2007

PRIMARY EXAMINER

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